



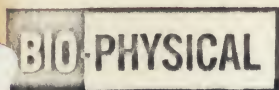
TIME CODE GENERATOR

MODEL 981

THE MODEL 981 TIME CODE GENERATOR IS A FULLY TRANSISTORIZED INSTRUMENT FOR ENCODING AND DISPLAYING TIME DATA FOR PERIODS UP TO 99 DAYS. IT WAS DESIGNED TO MEET THE REQUIREMENT OF AUTOMATICALLY MARKING RECORDINGS (GRAPHIC AND MAGNETIC TAPE) DURING AN EXTENDED RECORDING PROCEDURE. IT CONTAINS A CRYSTAL REFERENCE WHICH IS TEMPERATURE STABILIZED AND PROVIDES AN ACCURACY OF BETTER THAN 20 SECONDS PER DAY. A FRONT PANEL DECIMAL IN-LINE DISPLAY IS USED WITH PROVISIONS FOR PRESETTING, RESETTING OR HOLDING ELAPSED TIME. FIVE TYPES OF OUTPUTS ARE PROVIDED (1) SERIAL BCD AMPLITUDE MODULATED AUDIO TONE (2) SERIAL BCD LOGIC LEVELS (3) PULSEWIDTH-MODULATED AUDIO TONE (4) VARIABLE WIDTH SQUARE WAVE (5) PARALLEL BCD LOGIC LEVELS. OUTPUT 1, 2, AND 3 ARE PROVIDED FOR MARKING ANALOG MAGNETIC TAPE AND OSCILLOGRAPH RECORDINGS. OUTPUT 4 IS USED FOR MARKING GRAPHIC RECORDINGS USING AN EVENT MARKER. OUTPUT 5 IS PROVIDED FOR DIGITAL SCANNING FOR DIGITAL DATA LOGGING APPLICATIONS.

SPECIFICATIONS:

1. CONTROLS.
 - A. TONE OUTPUT.
 - B. OPERATE - SET.
 - C. RESET PUSHBUTTON.
 - D. PRESET PUSHBUTTONS
 - E. SELECTOR SWITCHES: ANY OR ALL SQUARE WAVES AND TONES (SECONDS, TEN SECONDS, MINUTES, TEN MINUTES, HOURS) COMBINED FOR OUTPUT.
2. OUTPUTS.
 - A. SERIAL BCD AMPLITUDE MODULATED AUDIO TONE: 1000 CPS, 100 OHMS IMPEDANCE.
 - B. SERIAL BCD LOGIC LEVELS: 0 VOLTS, -12 VOLTS.
 - C. PULSEWIDTH-MODULATED AUDIO TONE: 1000 CPS, 100 OHMS IMPEDANCE.
 - D. VARIABLE WIDTH SQUARE WAVE: 6 VOLTS AT 450 MILLIAMPERES TO DRIVE EVENT MARKER PENS.
 - E. PARALLEL BCD LOGIC LEVELS: 0 VOLTS, -12 VOLTS
3. VARIABLE WIDTH OUTPUT CODE.
 - A. SQUARE WAVE AND TONE
 - 1 SEC: 0.5 SEC PULSES
 - 10 SEC: 1.0 SEC PULSES
 - 1 MIN: 2.0 SEC PULSES
 - 10 MIN: 4.0 SEC PULSES
 - B. PARALLEL BINARY CODED DECIMAL.
 - SECONDS: 7 BIT BCD
 - MINUTES: 7 BIT BCD
 - HOURS: 6 BIT BCD
 - DAYS: 8 BIT BCD
4. DISPLAY: DECIMAL IN-LINE.
5. MOUNTING: RACK, 7" x 19" x 13".
6. POWER: 115 VAC, 60 CPS.
7. WEIGHT: 22 POUNDS.



RESEARCH INSTRUMENTS, INC.

HOUSTON, TEXAS

October 19, 1966

Mr. T. Nelson
Systems Consultants
Box 1546
Poughkeepsie, New Jersey 12603

Dear Mr. Nelson:

The information that you requested is enclosed. We appreciate your interest in our products and will send you any additional product literature that you require and will do everything possible to supply your needs.

In addition to the items described in the enclosed literature, we supply completely automated Data Acquisition Analysis and Logging Systems that completely process data from the source to a digital form and record it on an IBM computer compatible digital magnetic tape.

Since there are so many variations in instrumentation requirements for research and industrial programs, we are unable to quote prices on all of our systems. We generally make quotations based on the particular interest of the research scientist or engineer.

If we can be of service to you in quoting equipment prices or in advising you on a system for your requirements, please feel free to call us.

Yours very truly,

A handwritten signature in blue ink that reads "Harold E. Childers".

Harold E. Childers
President

HEC/jm

Enclosure(s): Model 981, TIME CODE GENERATOR data sheet.